

WHAT IS CLAIMED IS:

- 1 1. A vehicular seating system responsive to radio frequency (RF)
2 signals, the system comprising:
3 a vehicle passenger compartment defined by an interior boundary;
4 a seat disposed within the passenger compartment, the seat having a
5 seat back separated from the interior boundary;
6 a head rest extending from the seat back; and
7 a module centrally disposed within the headrest for receiving RF
8 signals.
- 1 2. The system of claim 1, wherein the RF signals originate from
2 a source outside of the passenger compartment.
- 1 3. The system of claim 1, wherein the module is further
2 operative to transmit RF signals to a destination outside the passenger compartment.
- 1 4. The system of claim 1, wherein the RF signals originate from
2 a control source.
- 1 5. The system of claim 4, wherein the control source is a remote
2 keyless entry device (RKE).
- 1 6. The system of claim 1, wherein the RF signals originate from
2 an information source,
- 1 7. The system of claim 6, wherein the information source is a
2 tire monitoring device.
- 1 8. The system of claim 1, further comprising means for a vehicle
2 control system to communicate with the module in response to the received signals.

1 9. The system of claim 1, wherein the module is supported and
2 positioned within the headrest by foam, the module separated from an outer
3 covering material of the headrest.

1 10. The system of claim 1, wherein the module is supported
2 within the headrest by a cross member within the headrest, the module separated
3 from an outer covering material of the headrest.

1 11. The system of claim 1, wherein the seat is a front seat.

1 12. The system of claim 1, wherein the headrest is located above
2 a definable metallic plane comprising vehicle door panels.

1 13. The system of claim 1, wherein the headrest portion is
2 substantially clear of interference from any substantial metallic object within the
3 passenger compartment.

1 14. The system of claim 1, wherein the module comprises an
2 antenna.

1 15. A vehicle seating system for receiving RF signals, the seating
2 system comprising:
3 a seat back portion;
4 a headrest portion extendable from the seat back portion, the headrest
5 position having an interior compartment; and
6 an antenna centrally disposed within the interior compartment for
7 receiving RF signals.

1 16. The support of claim 15, wherein the seat back portion is for
2 a vehicle seat not forming any portion of an interior boundary of a vehicle passenger
3 compartment.

1 17. The support of claim 15, wherein the antenna is operative to
2 transmit RF signals.

1 18. The support of claim 15, wherein the antenna is separated from
2 an outer surface of the headrest.

1 19. A remote keyless entry (RKE) system for an automotive
2 vehicle comprising:

3 an RKE device for transmitting radio frequency (RF) signals;

4 a front vehicle seat having a headrest;

5 an antenna centrally disposed within the headrest, the antenna capable
6 of receiving RF signals from the RKE device; and

7 a control system in communication with the antenna, the control
8 system responsive to the RKE signals.

1 20. The RKE system of claim 19, wherein the antenna is separated
2 from an outer surface of the headrest.